# PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT
To: HOWARD & HOWARD ATTORNEYS, P.C. Attn. Laprairie, David M. 39400 Woodward Avenue Suite 101 Bloomfield Hills, Michigan 48034 UNITED STATES OF AMERICA	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1)
	Date of mailing (day/month/year) 23/02/2004
Applicant's or agent's file reference 65278-007	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US 03/27198	International filing date (day/month/year) 29/08/2003
Applicant	
INTERMET CORPORATION	
1. X  The applicant is hereby notified that the International Search  Filing of amendments and statement under Article 19:  The applicant is entitled, if he so wishes, to amend the claim  When? The time limit for filing such amendments is norma International Search Report; however, for more de  Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35  For more detailed instructions, see the notes on the accordance.	Ily 2 months from the date of transmittal of the tails, see the notes on the accompanying sheet.
Article 17(2)(a) to that effect is transmitted herewith.	r neport will be established and that the declaration under
	nal fee(s) under Rule 40.2, the applicant is notified that:  n transmitted to the International Bureau together with the est and the decision thereon to the designated Offices.
no decision has been made yet on the protest; the app	licant will be notified as soon as a decision is made.
4. Further action(s): The applicant is reminded of the following:	
Shortly after 18 months from the priority date, the international ap If the applicant wishes to avoid or postpone publication, a notice priority claim, must reach the International Bureau as provided in completion of the technical preparations for international publica	of withdrawal of the international application, or of the n Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the
Within 19 months from the priority date, a demand for international wishes to postpone the entry into the national phase until 30 mo	
Within 20 months from the priority date, the applicant must perfor before all designated Offices which have not been elected in the priority date or could not be elected because they are not bound	e demand or in a later election within 19 months from the
Name and mailing address of the International Searching Authority	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Trudy Thoen-de Jong

#### **NOTES TO FORM PCT/ISA/220**

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

#### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international politication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### ₩hen?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The latter must be in English or Franch, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

### MOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
  "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
  - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

## Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

# PATENT COOPERATION TREATY



## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		f Transmittal of International Search Report
65278-007	ACTION (Form PCT/ISA/2)	20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 03/27198	29/08/2003	04/09/2002
Applicant		
TAMBERMEN GOD BOD ANTON		
INTERMET CORPORATION		
This International Search Benort has been	n prepared by this International Searching Auth	ority and is transmitted to the applicant
according to Article 18. A copy is being tra		only and to walloringed to the applicant
This International Search Report consists	of a total of 4 sheets	
	a copy of each prior art document cited in this	report.
1 Pagin of the report		
Basis of the report     a. With regard to the language, the	international search was carried out on the bas	is of the international application in the
	ess otherwise indicated under this item.	
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	ne international application furnished to this
b. With regard to any <b>nucleotide an</b> was carried out on the basis of the	d/or amino acid sequence disclosed in the in	ternational application, the international search
	nal application in written form.	
filed together with the inte	rnational application in computer readable form	n.
	this Authority in written form.	
	this Authority in computer readble form. sequently furnished written sequence listing do	age not go havened the disclosure in the
international application as	s filed has been furnished.	res not go beyond the disclosure in the
the statement that the info furnished	rmation recorded in computer readable form is	identical to the written sequence listing has been
2. Certain claims were four	nd unsearchable (See Box I).	
3. Unity of invention is lack	king (see Box II).	
4. With regard to the title,		
the text is approved as sui	omitted by the applicant.	
	ned by this Authority to read as follows:	
AUSTEMPERED CAST IRON	ARTICLE AND A METHOD OF MAKE	ING THE SAME
5. With regard to the abstract,		
X the text is approved as sui	omitted by the applicant.	
the text has been establish within one month from the	ned, according to Rule 38.2(b), by this Authority date of mailing of this international search rep	y as it appears in Box III. The applicant may, ort, submit comments to this Authority.
6. The figure of the <b>drawings</b> to be publi		
as suggested by the applic		X None of the figures.
because the applicant faile	ed to suggest a figure.	_
because this figure better	characterizes the invention.	

### INTERNATIONAL SEARCH REPORT

International Application No PCT/US 03/27198

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C21D5/00 C22C37/04

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C21D C22C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Х	EP 0 018 445 A (MUEHLBERGER HORST) 12 November 1980 (1980-11-12) cited in the application page 3-4; claims 1-5	1-34	
Α	PUTATUNDA SK: "Development of austempered ductile cast iron with simultaneous high yield strenght and fracture toughness by a novel two-step austempering process" MATERIALS SCIENCE AND ENGINEERING, vol. A315, 30 September 2001 (2001-09-30), pages 70-80, XP002269143 Switzerland		
Α	US 5 139 579 A (KOVACS BELA V ET AL) 18 August 1992 (1992-08-18)/		

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:  A document defining the general state of the art which is not considered to be of particular relevance  E earlier document but published on or after the international filing date  L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  O document referring to an oral disclosure, use, exhibition or other means  P document published prior to the international filing date but later than the priority date claimed	<ul> <li>'T' later document published after the international filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the invention</li> <li>'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>'&amp;' document member of the same patent family</li> </ul>
Date of the actual completion of the international search  9 February 2004	Date of mailing of the international search report 23/02/2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer Chebeleu, A

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# INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 03/27198

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 596 606 A (KOVACS BELA V ET AL) 24 June 1986 (1986-06-24)	
A	US 5 849 114 A (KEOUGH JOHN R ET AL) 15 December 1998 (1998–12–15)	

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US 03/27198

Patent docum- cited in search r		Publication date		Patent family member(s)		Publication date
EP 001844	5 A	12-11-1980	DE DE	2853870 2967045	D1	03-07-1980 12-07-1984
			EP JP	0018445		12-11-1980
			JP	1320035 55094459	A	29-05-1986 17-07-1980
			JP		B B	13-03-1984
			ZA	7906750	_	26-11-1980
					^ 	
US 5139579	) A	18-08-1992	US	5043028	Α	27-08-1991
US 4596606	6 A	24-06-1986	GB	2173727	 А	22-10-1986
			AU		B2	29-09-1988
			AU	4701785	Α	13-03-1986
			BR	8503081	Α	27-05-1986
			CA	1229777	A1	01-12-1987
			DE	3580549	D1	20-12-1990
			EP	0174087	A2	12-03-1986
			JP	1618473	С	12-09-1991
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			JP	61113706	Α	31-05-1986
			MX		В	29-05-1992
			DE	3512687	A1	16-10-1986
			FR	2580297	A1	17-10-1986
			NL	8501074		03-11-1986
			US	4596608	Α	24-06-1986
US 5849114	Α	15-12-1998	NONE			